



Cover: *Drosophila* larval brain lobes labelled with ribosomal protein 10Ab (Rpl10Ab, green) and Clueless (Clu, red), with DAPI in blue. Clu binds the ribosome at the mitochondrial outer membrane and may function in mitochondrial protein import. Clu and Rpl10Ab, as well as other ribosomal proteins, are highly expressed in the frequently dividing larval neuroblast stem cells. For details see the article by Sen and Cox, page 195. Image credit: R.T. Cox.

EDITORIAL

- 91 Thanking our peer reviewers
Hackett, R. and Raff, J. W.

RESEARCH ARTICLES

- 92 Foraging at wastewater treatment works affects brown adipose tissue fatty acid profiles in banana bats
Hill, K., van Aswegen, S., Schoeman, M. C., Claassens, S., Jansen van Rensburg, P., Naidoo, S. and Vosloo, D.
- 100 BRE facilitates skeletal muscle regeneration by promoting satellite cell motility and differentiation
Xiao, L. and Lee, K. K. H.
- 112 Biosignature for airway inflammation in a house dust mite-challenged murine model of allergic asthma
Piyadasa, H., Altieri, A., Basu, S., Schwartz, J., Halayko, A. J. and Mookherjee, N.
- 122 METACASPASE9 modulates autophagy to confine cell death to the target cells during *Arabidopsis* vascular xylem differentiation
Escamez, S., André, D., Zhang, B., Bollhöner, B., Pesquet, E. and Tuominen, H.
- 130 Thyroid bud morphogenesis requires CDC42- and SHROOM3-dependent apical constriction
Loebel, D. A. F., Plageman, T. F., Jr, Tang, T. L., Jones, V. J., Muccioli, M. and Tam, P. P. L.
- 140 Desmin enters the nucleus of cardiac stem cells and modulates Nkx2.5 expression by participating in transcription factor complexes that interact with the *nkx2.5* gene
Fuchs, C., Gawlas, S., Heher, P., Nikouli, S., Paar, H., Ivankovic, M., Schultheis, M., Klammer, J., Gottschamel, T., Capetanaki, Y. and Weitzer, G.
- 154 Inhomogeneous distribution of *Chlamydomonas* in a cylindrical container with a bubble plume
Nonaka, Y., Kikuchi, K., Numayama-Tsuruta, K., Kage, A., Ueno, H. and Ishikawa, T.
- 161 Daily cycle in oxygen consumption by the sea anemone *Nematostella vectensis* Stephenson
Maas, A. E., Jones, I. T., Reitzel, A. M. and Tarrant, A. M.
- 165 Glucose modulates *Drosophila* longevity and immunity independent of the microbiota
Galenza, A., Hutchinson, J., Campbell, S. D., Hazes, B. and Foley, E.
- 174 Aging influences steroid hormone release by mink ovaries and their response to leptin and IGF-I
Sirotkin, A. V., Mertin, D., Süvegová, K., Harrath, A. H. and Kotwica, J.
- 178 Unique geometry of sister kinetochores in human oocytes during meiosis I may explain maternal age-associated increases in chromosomal abnormalities
Patel, J., Tan, S. L., Hartshorne, G. M. and McAinsh, A. D.
- 185 On the development of extragonadal and gonadal human germ cells
Heeren, A. M., He, N., de Souza, A. F., Goercharn-Ramlal, A., van Iperen, L., Roost, M. S., Gomes Fernandes, M. M., van der Westerlaken, L. A. J. and Chuva de Sousa Lopes, S. M.
- 195 Clueless is a conserved ribonucleoprotein that binds the ribosome at the mitochondrial outer membrane
Sen, A. and Cox, R. T.

CORRECTION

- 204 Region and dynamic specificities of adult neural stem cells and oligodendrocyte precursors in myelin regeneration in the mouse brain
Brousse, B., Magalon, K., Durbec, P. and Cayre, M.